

APR09-2009-000713

Abstract Submitted  
for the APR09 Meeting of  
The American Physical Society

Sorting Category: A19. (E)

**Measurement of the  $W$  boson helicity fractions in  $t\bar{t}$  production in dilepton channel at CDF** ROMAN LYSAK, IEP SAS, Slovakia, CDF COLLABORATION — We analyze  $W$  boson helicity fractions of  $t\bar{t}$  candidates selected from final states where both  $W$  bosons are decaying leptonically. The analysis is based on  $3\text{ fb}^{-1}$  of data collected with the CDF detector at the Tevatron. The  $W$  helicity fractions are determined by a comparison of angular distributions of leptons in the  $W$  rest-frame with templates corresponding to left-handed, right-handed and longitudinal fractions exclusively. This is the first measurement of  $W$  helicity fractions in this channel using kinematic reconstruction at CDF.

☒  
☐

Prefer Oral Session  
Prefer Poster Session

Florencia Canelli  
canelli@uchicago.edu  
University of Chicago/Fermilab

Date submitted: 09 Jan 2009

Electronic form version 1.4